

Title (en)
Bone plate and screw retaining mechanism

Title (de)
Knochenplatte und Haltemechanismus für eine Schraube

Title (fr)
Plaque d'ostéosynthèse et mécanisme de retenue de vis

Publication
EP 1346697 A2 20030924 (EN)

Application
EP 03251434 A 20030310

Priority
US 9572002 A 20020312

Abstract (en)
The present invention provides for a bone plate assembly utilizing at least one bone screw for fixation of adjacent bones of a spine including a base plate having at least one aperture extending therethrough and screw retaining mechanism mounted and movable on the plate between locked and unlocked positions relative to the aperture for preventing the bone screw from backing out from the base plate. The present invention also provides for a device for placement into an aperture of a base plate including a screw retaining mechanism mountable and movable on a plate between locked and unlocked positions relative to an aperture for preventing a bone screw from backing out from the base plate. Additionally, the present invention provides for a snap ring for placement into an aperture of a base plate including a screw retaining mechanism mountable and movable on the plate between locked and unlocked positions relative to the aperture for preventing a screw from backing out. Also, the present invention provides for a device for placement into an aperture of a base plate, wherein the aperture includes a pocket. Finally, the present invention provides for a bone plate assembly including at least one aperture extending therethrough, wherein the aperture is an elongated slot having a hole extending therethrough and walls forming a spherical seat a distance along a length of the slot to allow the screw to enter through the hole and screw retaining mechanism mounted and movable on the plate between locked and unlocked positions. <IMAGE>

IPC 1-7
A61B 17/80

IPC 8 full level
A61B 17/58 (2006.01); **A61B 17/70** (2006.01); **A61B 17/80** (2006.01)

CPC (source: EP US)
A61B 17/7059 (2013.01 - EP US); **A61B 17/8042** (2013.01 - EP US)

Cited by
DE102004050040A1; EP2368506A1; KR101007345B1; EP2456377A4; EP2623058A3; CN104254286A; US10213242B2; US10368927B2; US8702764B2; WO2013116952A1; WO2010121388A1; WO2006101837A3; US10206722B2; US10888358B2; US7988714B2; US8398688B2; US10159514B2; US10980575B2; US11696786B2; US9655665B2; US10758361B2; US10166051B2; US11129653B2; US11382769B2; US11877779B2; US11911284B2; US9936984B2; US10226291B2; US10898247B2; US8702765B2; US10568664B2; US11364057B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1346697 A2 20030924; EP 1346697 A3 20040804; AU 2003200939 A1 20031002; CA 2421471 A1 20030912; JP 2003265493 A 20030924; JP 4129513 B2 20080806; US 2003187440 A1 20031002; US 2003187442 A1 20031002; US 2004097935 A1 20040520; US 6695846 B2 20040224; US 7972366 B2 20110705; US 8500737 B2 20130806

DOCDB simple family (application)
EP 03251434 A 20030310; AU 2003200939 A 20030311; CA 2421471 A 20030311; JP 2003067286 A 20030312; US 40199703 A 20030328; US 73021003 A 20031208; US 9572002 A 20020312